

POLYTRIMETHYLENE TEREPHTHALATE FIBER

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Abstract

PROBLEM TO BE SOLVED: To provide a PTT(polytrimethylene terephthalate)-POY(pre-oriented yarn) capable of being industrially produced without causing tightening of wound yarns and occurring buldge, and enabling a stable draw-false twisting at a high speed, and further to provide a false twisted yarn with an excellent quality.

SOLUTION: This PTT-POY having an intrinsic viscosity, an orientation, an elongation and a shrinkage within specific ranges is produced by using a PTT polymer having a high polymerization degree, and using a special spinning method of extruding the PTT polymer at a surface temperature of a spinneret within a specified range to reduce the rapid cooling of the molten yarn, and winding the cooled yarn by an extremely low tension. The false-twisted yarn of the yarn, and the method for producing them are also provided. As a result, the PTT-POY can be produced without causing the tightening of the wound yarn and the bulge, draw-false twisting processability at the high speed is extremely improved, and the false twisted yarn in high quality can be obtained in good productivity.

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